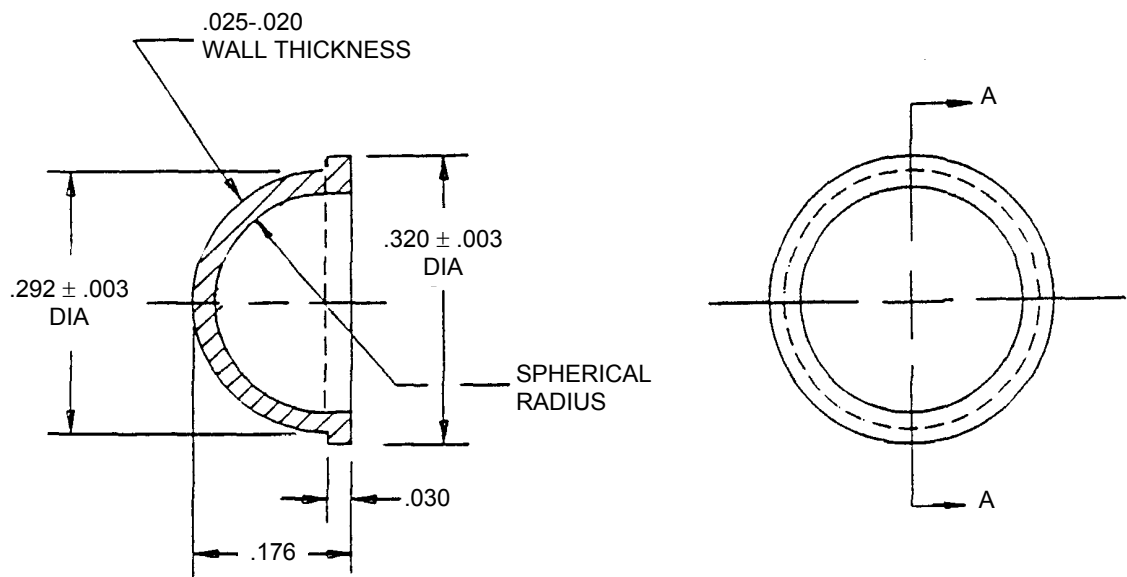


PERFORMANCE SPECIFICATION SHEET

SWITCH, PUSHBUTTON, ILLUMINATED, COLOR FILTER FOR, LAMP-CAP DESIGN

This specification sheet is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the color filter described herein shall consist of this specification sheet and MIL-PRF-22885.



SECTION A-A

| Inches | mm   | Inches | mm   |
|--------|------|--------|------|
| .003   | 0.08 | .176   | 4.47 |
| .020   | 0.51 | .292   | 7.42 |
| .025   | 0.64 | .320   | 8.13 |
| .030   | 0.76 |        |      |

- NOTES:
1. Dimensions are in inches. Metric equivalents are given for general information only.
  2. Unless otherwise specified, tolerance is ±.010 (.25 mm).

FIGURE 1. Design and construction.

## REQUIREMENTS:

Design and construction: See figure 1. Color filters shall be capable of mating with pushbuttons in accordance with MIL-PRF-22885/53.

Temperature characteristic: 1 (-55°C to +85°C).

Color and luminance: See table I.

Part or Identifying Number (PIN): See table II.

Qualification inspection: As a part of illuminated push button switch assembly, MIL-PRF-22885/56.

TABLE I. Chromaticity limits and photometric brightness.

| Color  | Color code | Chromaticity limits <u>1/</u><br>2360° Kelvin |              | Switch photometric brightness<br>(foot-lamberts) <u>2/</u><br>minimum |
|--------|------------|---|--------------|---|
|        |            | x   | y            |   |
| Blue   | B          | .210  | .280         | 25  |
|        |            | .330  | .280         |   |
|        |            | .330  | .420         |   |
|        |            | .210  | .420         |   |
| Green  | G          | .260  | .570         | 50  |
|        |            | .300  | .630         |   |
|        |            | .160  | .660         |   |
|        |            | .200  | .720         |   |
| Red    | R          | .695  | .285         | 80  |
|        |            | .703  | SL <u>3/</u> |   |
|        |            | .655  | .325         |   |
|        |            | .660  | SL <u>3/</u> |   |
| White  | W          | .380  | .350         | 150   |
|        |            | .460  | .385         |   |
|        |            | .460  | .430         |   |
|        |            | .380  | .410         |   |
| Yellow | Y          | .562  | .415         | 150   |
|        |            | .570  | SL <u>3/</u> |   |
|        |            | .596  | .382         |   |
|        |            | .605  | SL <u>3/</u> |   |

1/ The chromaticity of the assembled illuminated display, expressed as x and y coordinates on the CIE chromaticity diagram, shall lie within areas bounded by the coordinates listed for each color, using a source illuminate of 2360°K.

2/ Switch photometric brightness, when viewed from the front of the applicable pushbutton display and using midget flange, T-1 ¾ incandescent lamps operated at a .34 ±.02 MSCP.

3/ SL = Spectrum Locus (where intersected by other coordinate pair).

MIL-PRF-22885/55G

TABLE II. Part or Identifying Number.

| PIN's         | Color  | Color code |
|---------------|--------|------------|
| M22885/55-001 | Blue   | B          |
| M22885/55-002 | Green  | G          |
| M22885/55-003 | Red    | R          |
| M22885/55-004 | White  | W          |
| M22885/55-005 | Yellow | Y          |

Reference Documents:

MIL-PRF-22885  
MIL-PRF-22885/53  
MIL-PRF-22885/56

Custodians:

Army - CR  
Navy - EC  
Air Force - 11  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5930-1808)

Review activities:

Army - AR, CR4, MI  
Navy - AS, MC, OS, SH  
Air Force - 19, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at [www.dodssp.daps.mil](http://www.dodssp.daps.mil).